Data File Format for public (FTP site) 20mm_New.accdb file

This document describes updates to the format (tables and field names) of the 20-mm database (starting in 2020). These data are housed and backed up on the tier 3 server. Backups, updates, and changes can be done through Tuongvan Nguyen in the CDFW Data and Technology Division. Document created by L. Damon on 11/27/2017. Document updated by V.Mora on 3/13/2024.

Structure of the 20-mm database

Lookup Tables:

20mmStations

Variable	Column	Description
Station	1	Project station number (e.g. 323)
LatD	2	Latitude Degrees (North)
LatM	3	Latitude Minutes
LatS	4	Latitude Seconds
LonD	5	Longitude Degrees (West)
LonM	6	Longitude Minutes
LonS	7	Longitude Seconds
RKI	8	River Kilometer Index
Location	9	Description of sampling station
Notes	10	Comments pertaining to sampling station

FishCodes

Variable	Column	Description
Common Name	1	Common name of the fish taxon sampled
Genus	2	Genus name of fish
Species	3	Species name of fish
Family	4	Family name of fish
Fish Code	5	Numeric code assigned to each fish taxon
Symbol	6	Letter symbol (2 or 3 letters) for each fish taxon
TNS Field	7	Field name used in Townet Survey data sets
MWT Species Code	8	Numeric code used in Mid-water Trawl data sets
MWT Field	9	Field name used in Mid-water Trawl data sets

ZooCodes

Variable	Column	Description
Zoo Code	1	Numeric code for each invertebrate species
Common Name	2	Common name of the invert taxon sampled
Phylum	3	Phylum of the invertebrate
Class	4	Class of the invertebrate
Order	5	Order of the invertebrate
Family	6	Family of the invertebrate
Genus	7	Genus of the invertebrate
Species	8	Species of the invertebrate
Zoo Order	9	Order categories appear on zooplankton data sheet
Diet Order	10	Order categories appear on diet data sheet
POD Diet Order	11	Pelagic Organism Decline diet codes

GearCodesLkp

Variable	Column	Description
GearCode	1	Numeric code for each gear type
Gear	2	Text indicating the gear used (i.e., net or CB)

GearDescription	3	Text describing the gear
Order	4	Number for order of gears on report
Active	5	Yes = gear is currently active, No = Gear is inactive

MeterCorrections

Variable	Column	Description
StudyYear	1	Year the flowmeter was used
MeterSerial	2	Serial number on the flowmeter
CalibrationDate	3	Date the flowmeter was calibrated at UCDavis
kFactor	4	Calculated; specific to each meterserial and studyyear
Notes	5	Comments field

SampleCode

Variable	Column	Description
SampleCodeID	1	Numeric code
SampleCode	2	Text description for each numeric code (Valid =normal sample, Invalid = sample is erroneous

Data Tables:

Survey

Variable	Column	Description
SurveyID	1	Autonumber (Unique ID) given to each survey record
SampleDate	2	Date the sample was taken
Survey	3	Number assigned to each week-long sampling effort
Comments	4	Comments associated with each date and survey

Station

Variable	Column	Description
StationID	1	AutoNumber (unique ID) for each station record
SurveyID	2	UniqueID associated from Survey table
Station	3	Three digit numeric code for sample location
StartLatDeg	4	Start Latitude Degrees (WGS 1984)
StartLatMin	5	Start Latitude Minutes (WGS 1984)
StartLatSec	6	Start Latitude Seconds (WGS 1984)
StartLonDeg	7	Start Longitude Degrees (WGS 1984)
StartLonMin	8	Start Longitude Minutes (WGS 1984)
StartLonSec	9	Start Longitude Seconds (WGS 1984)
EndLatDeg	10	End Latitude Degrees (WGS 1984)
EndLatMin	11	End Latitude Minutes (WGS 1984)
EndLatSec	12	End Latitude Seconds (WGS 1984)
EndLonDeg	13	End Longitude Degrees (WGS 1984)
EndLonMin	14	End Longitude Minutes (WGS 1984)
EndLonSec	15	End Longitude Seconds (WGS 1984)
Temp	10	Top water temperature collected at each station (°C)
TopEC	11	Top water specific conductance (µm/CM)
BottomEC	12	Bottom water specific conductance (µm/CM)
Secchi	13	Water clarity (cm)
NTU	14	Turbidity of top water sample (NTU)
FNU	14	Turbidity of top water sample (FNU)
Comments	15	Comments associated with each date/survey/station

Tow

Variable	Column	Description
TowID	1	AutoNumber (unique ID) for each tow record
StationID	2	UniqueID associated from Station table
TowNum	3	Number associated with each tow at a station

TowTime	4	Time the tow was conducted
Tide	5	Tide during Tow (1=High Slack, 2=Ebb, 3=Low Slack, 4=Flood)
BottomDepth	6	Water Depth at start of tow
CableOut	7	Amount of cable released based on depth (see Tow Schedule)
Duration	8	Amount of time the tow was conducted

Gear

Variable	Column	Description
GearID	1	AutoNumber (unique ID) for each Gear record
TowID	2	UniqueID associated from Tow table
GearCode	3	Numerical code to distinguish gear type (GearCodeLkp)
MeterSerial	4	Serial number of each General Oceanics flowmeter
MeterStart	5	Number on flowmeter counter at start of tow
MeterEnd	6	Number on flowmeter counter at end of tow
MeterCheck	7	Difference between start and end flowmeter counts
Comments	8	Comment Field

FishSample

Variable	Column	Description
FishSampleID	1	AutoNumber (unique ID) for each FishSample record
GearID	2	UniqueID associated from Gear table
SampleCode	3	1 = valid, 2 = invalid
FishCode	4	Numerical code associated with each species
Catch	5	Number of organisms caught

FishLength

Variable	Column	Description
FishLengthID	1	AutoNumber (unique ID) for each FishLength record
FishSampleID	2	UniqueID associated from FishLength table
Length	3	Length (mm) of each organism caught
AdFinPresent	4	Yes/No field for adipose fin presence in salmonids
ReleasedAlive	5	Yes/No field if salmonid was released alive or killed

ZooSample

Variable	Column	Description
GearID	1	UniqueID associated from Gear table
SampleCode	2	1 = valid, 2 = invalid
Dilution	3	Volume of the sample after diluted with water
CellsProcessed	4	Number of slides processed per sample

ZooCount

Variable	Column	Description
ZooCountID	1	AutoNumber (unique ID) for each ZooCount record
GearID	2	UniqueID associated from Gear table
CellNumber	3	Microscope slide number
ZooCode	4	Numerical code associated with each species
ZooCount	5	Number of organisms counted